



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS**

**FOURTH SEMESTER – APRIL 2015**

**CA 4954 - ADVANCED JAVA**

Date : 22/04/2015  
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART-A**

**Answer ALL Questions:**

**10 X 2=20**

1. What are the fundamental logic layers of Enterprise architecture?
2. What is ResultSet?
3. What are the seven interfaces of building a web application?
4. What is a session?
5. What are the different types of standard events of JSF?
6. State the use of Resource Bundles.
7. Differentiate stateless and stateful session bean.
8. What are interceptors?
9. Differentiate session bean and entity bean.
10. Define query API.

**PART-B**

**Answer ALL Questions:**

**5 X 8=40**

- 11.a.) Write short notes on the servers used for enterprise java applications.  
(or)  
b.) Explain in detail the web architecture models.
- 12.a.) Write short notes on the various methods used in the life cycle of the servlet.  
(or)  
b.) Explain the types of Wrapper classes.
- 13.a.) Illustrate the JSF request processing life cycle.  
(or)  
b.) Write code for the following:
  - i. simple navigation rule.
  - ii. define different navigation cases.
  - iii. global navigation rule.
- 14.a.) Write short notes on life cycle of Stateful Session Bean.  
(or)  
b.) What is a transaction? Explain the transaction properties.
- 15.a.) Explain the entity listeners and callbacks.  
(or)  
b.) Explain the following operators of JPQL:
  - i. conditional expressions operators.
  - ii. relational operators

**PART-C**

**Answer any TWO Questions:**

**2 X 20=40**

- 16.a.) Explain in detail the different types of enterprise architecture.  
b.) Explain the session tracking mechanisms.
- 17.a.) Explain the JSF core tags.  
b.) Explain the various transaction models.
- 18.a.) Discuss the steps to execute the queries.  
b.) Explain the JPQL functions.

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